# PATENT ABSTRACTS OF JAPAN

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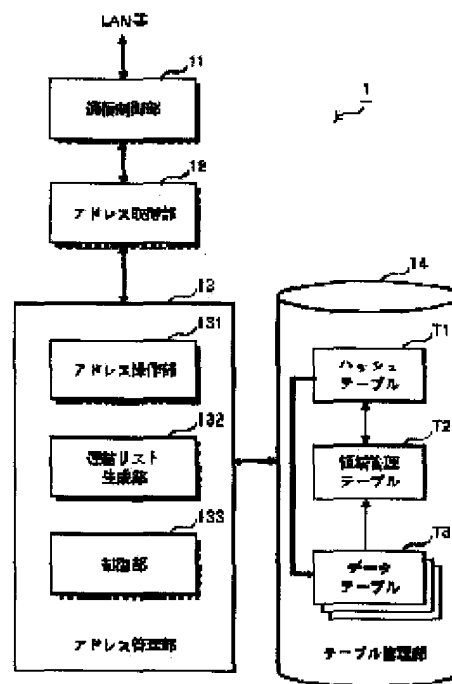| | | |
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| (21)Application number : | 11-005479 | (71)Applicant : | SHIMADA PHYS & CHEM IND CO LTD |
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(54) ADDRESS MANAGEMENT METHOD AND DEVICE, AND RECORDING MEDIUM THEREOF

(57)Abstract:
PROBLEM TO BE SOLVED: To provide communication equipment that can easily manage a media access control MAC address.
SOLUTION: In this address management method, an address management section 13 divides a MAC address into groups of higher-order bits and low-order bits and derives a residue of dividing the group of the higher-order bits by a 1st prime as a 1st parameter and a remainder of dividing the group of the lower-order bits by a 2nd prime as a 2nd parameter. When registering the MAC address, an idle area of a data table T3 is reserved through an area management table T2, the MAC address is registered in the reserved idle area and an address (pointer) of the registered area is stored in an index area of a hash table T1, depending on a combination of the parameters. When retrieving or deleting the MAC address, the registered area of the data table T3 is specified through the pointer of the index area of the hash table T1.

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